

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee			Left	21.68
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/27/2018 - 3/27/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_ST0002_01_s _ 2013_4				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_ST0002_01_s _ 2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_ST0002_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The LMA has completed flood flight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	0.32	Rating **	M	Issue No.	62	
LM End	0.32	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.147463 °	39.147463 °	
				-121.828716 °	-121.828716 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51556						
DS_ID:16859						
EP_NO: 4795						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: 4/11/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/10/2016 Unable to locate.4/18/2016 Unable to locate.5/7/2015 Could not locate a marker for this crossing.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. Unable to locate.10/8/2012 Unable to locate any indicator of crossing. More research may be necessary.						
FIELD_STRUCT_DESC: 3-inch gas line of an unknown material along the landside (LS) toe, at an unknown depth. (Permit No. 4795, 1965 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 4/13/2017 12:41:48 PM						

No Photos

LM Start	0.36	Rating **	M	Issue No.	42
LM End	0.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.147183 °	39.147183 °
				-121.828142 °	-121.828142 °
DWR ID	DWR_ST0002_01_s_2017_42				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Repair the erosion along the water side toe.					

Photo 1 of 1 : SP_2018_ST0002_450_42_20180305_00012.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.11	Rating **	M	Issue No.	46
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.140817 °	39.140817 °
				-121.816848 °	-121.816848 °
DWR ID	DWR_ST0002_01_s_2018_46				
Comment Code					
GA : Garbage					
Inspector Comment					
Remove the garbage from the waterside slope.					

Photo 1 of 1 : SP_2018_ST0002_450_46_20180403_00078.jpg



View of the garbage along the waterside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.12	Rating **	M	Issue No.	63
LM End	1.12	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.140868 °	39.140868 °	
			-121.816644 °	-121.816644 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:51560
DS_ID:16862
EP_NO: 10932
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- A Freitag) 10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried. (DWR Sutter Yard - a Freitag) 4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found. 5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder. 11/12/2014 Same as last inspection. 5/13/2014 Same as last inspection. 10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder. 5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker. 10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)].
FS Date: 4/13/2017 12:49:52 PM

Photo 1 of 3 : UCIP_SP_2018_51560_64805.jpg



Pump on metal pier on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.12	Rating **	M	Issue No.	63 (cont)
LM End	1.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °

Comment Code

Inspector Comment

FS_ID:51560
DS_ID:16862
EP_NO: 10932
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- A Freitag) 10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried. (DWR Sutter Yard - a Freitag) 4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found. 5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder. 11/12/2014 Same as last inspection. 5/13/2014 Same as last inspection. 10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder. 5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker. 10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)].
FS Date: 4/13/2017 12:49:52 PM

Photo 2 of 3 : UCIP_SP_2018_51560_64804.jpg



24-inch CMP riser on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.12	Rating **	M	Issue No.	63 (cont)	
LM End	1.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.140868 °		39.140868 °
				-121.816644 °		-121.816644 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51560 DS_ID:16862 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- A Freitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - a Freitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 4/13/2017 12:49:52 PM						

Photo 3 of 3 : UCIP_SP_2018_51560_64803.jpg



7'X7' concrete distribution box on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	1.53	Rating **	U	Issue No.	57
LM End	1.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.137373 °	39.137373 °
				-121.810382 °	-121.810382 °
DWR ID	DWR_ST0002_01_f_2017_57				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : SP_2018_ST0002_450_57_20180305_00013.jpg



View of the beaver hole along the waterside berm.

LM Start	1.57	Rating **	U	Issue No.	58
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.137010 °	39.137010 °
				-121.809673 °	-121.809673 °
DWR ID	DWR_ST0002_01_f_2017_58				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : SP_2018_ST0002_450_58_20180305_00014.jpg



View of the beaver hole along the waterside berm.

LM Start	1.61	Rating **	U	Issue No.	61
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.136713 °	39.136713 °
				-121.809202 °	-121.809202 °
DWR ID	DWR_ST0002_01_f_2017_61				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : SP_2018_ST0002_450_61_20180305_00015.jpg



View of the beaver hole along the waterside berm.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

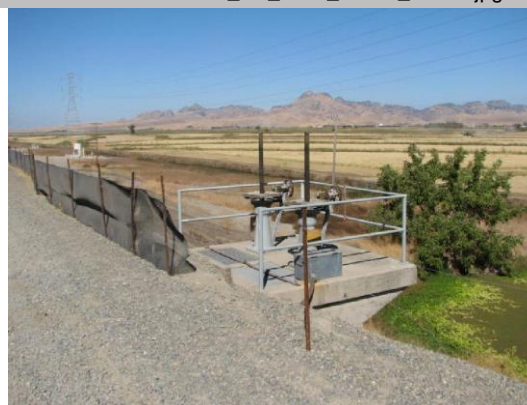
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	3.54	Rating **	C	Issue No.	30
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.120417 °	39.120417 °
				-121.779863 °	-121.779863 °
DWR ID	DWR_ST0002_01_f_2015_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The rodent holes was repaired along the landside slope.					

No Photos

LM Start	3.55	Rating **	A/W	Issue No.	64	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °	
				-121.779800 °	-121.779800 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51566 DS_ID:16880 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 4/13/2017 1:10:49 PM						

Photo 1 of 3 : UCIP_SP_2018_51566_64815.jpg



Slide gates on LS shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	64 (cont)
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °
				-121.779800 °	-121.779800 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51566
DS_ID:16880
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].
FS Date: 4/13/2017 1:10:49 PM

LM Start	3.55	Rating **	A/W	Issue No.	64 (cont)
LM End	3.55	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51566_64814.jpg



Flap gates on WS toe.

Photo 3 of 3 : UCIP_SP_2018_51566_64813.jpg



Abandoned pumphouse and sump on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	65
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °
				-121.779775 °	-121.779775 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51567
DS_ID:16895
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].
FS Date: 4/13/2017 1:16:13 PM

LM Start	3.55	Rating **	A/W	Issue No.	65 (cont)
LM End	3.55	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51567_64819.jpg



Slide gate valves on LS shoulder.

Photo 2 of 3 : UCIP_SP_2018_51567_64818.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	65 (cont)	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °	
				-121.779775 °	-121.779775 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51567 DS_ID:16895 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 4/13/2017 1:16:13 PM						

Photo 3 of 3 : UCIP_SP_2018_51567_64817.jpg



Abandoned pump house and sump on LS toe.

LM Start	4.81	Rating **	M	Issue No.	26
LM End	4.81	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.108110 °	39.108110 °
				-121.762623 °	-121.762623 °
DWR ID	DWR_ST0002_01_f_2016_26				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Longitudinal cracks caused by fat clay.					

Photo 1 of 1 : SP_2018_ST0002_450_26_20180305_00005.jpg



View of the longitudinal cracks.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	5.19	Rating **	M	Issue No.	45
LM End	5.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.103368 °	39.103368 °
				-121.758760 °	-121.758760 °
DWR ID	DWR_ST0002_01_s_2018_45				
Comment Code					
Inspector Comment					
Repair the slope damaged by vehicle traffic.					

Photo 1 of 1 : SP_2018_ST0002_450_45_20180403_00076.jpg



View of the vehicle traffic along the waterside slope.

LM Start	7.47	Rating **	M	Issue No.	66	
LM End	7.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.072292 °	39.072292 °	
				-121.744907 °	-121.744907 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51582 DS_ID:19985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/13/2017 1:56:50 PM						

Photo 1 of 3 : UCIP_SP_2018_51582_65213.jpg



Gasline marker on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	7.47	Rating **	M	Issue No.	66 (cont)	
LM End	7.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.072292 °	39.072292 °	
				-121.744907 °	-121.744907 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51582 DS_ID:19985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/13/2017 1:56:50 PM						

Photo 2 of 3 : UCIP_SP_2018_51582_65212.jpg



Gasline marker on LS toe east of ditch.

LM Start	7.47	Rating **	M	Issue No.	66 (cont)
LM End	7.47	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_51582_76970.jpg



Close up of marker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	7.83	Rating **	A/W	Issue No.	34
LM End	7.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.067299 °	39.067299 °
				-121.742851 °	-121.742851 °
DWR ID	DWR_ST0002_01_f_2016_34				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2018_ST0002_450_34_20180305_00008.jpg



View of the erosion along the waterside toe.

LM Start	7.90	Rating **	A/W	Issue No.	41	
LM End	8.66	Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			39.066360 °	39.055830 °	
				-121.742320 °	-121.738090 °	
DWR ID	DWR_ST0002_01_f_2017_41					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:175						
Site Designation:FSRP-13-65						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	8.14	Rating **	M	Issue No.	67
LM End	8.14	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.062976 °	39.062976 °	
			-121.741027 °	-121.741027 °	

DWR ID	
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Comment Code	
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Inspector Comment	
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FS_ID:51583
DS_ID:19984
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Crossing appears to be in good condition.
(DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.
(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.
5/7/2015 Crossing is in good condition. No noticeable issues to report.
11/12/2014 Same as last inspection.
5/13/2014 Same as last inspection.
10/30/2013 Same as last inspection.
5/22/2013 Same as last inspection.
10/8/2012 No permit or purpose identified for this crossing.
FIELD_STRUCT_DESC: 2.5-inch steel pipe of an unknown purpose bored under the levee, at an unknown depth. Pipe has locked cap on the landside (LS) toe. Steel I-beam stream crossing on the LS toe marks the location of the pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012.
FS Date: 4/13/2017 2:00:16 PM

LM Start	8.14	Rating **	M	Issue No.	67 (cont)
LM End	8.14	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_SP_2018_51583_65215.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

Photo 2 of 2 : UCIP_SP_2018_51583_65214.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	68	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033522 °	39.033522 °	
				-121.728927 °	-121.728927 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51620 DS_ID:16884 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- A Freitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - a Freitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - a Freitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - a Freitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/22/2013 Carsonite marker on WS shoudler is broken and should be replaced. (DWR Sutter Yard - a Freitag) FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.). FS Date: 4/17/2017 2:16:00 PM						

Photo 1 of 3 : UCIP_SP_2018_51620_65217.jpg



Gasline markers on LS toe .

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	68 (cont)	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033522 °	39.033522 °	
				-121.728927 °	-121.728927 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51620 DS_ID:16884 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- A Freitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - a Freitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - a Freitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - a Freitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/22/2013 Carsonite marker on WS shoudler is broken and should be replaced. (DWR Sutter Yard - a Freitag) FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.). FS Date: 4/17/2017 2:16:00 PM						

Photo 2 of 3 : UCIP_SP_2018_51620_65216.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	68 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID					

Comment Code
Inspector Comment

FS_ID:51620
DS_ID:16884
EP_NO: 14455
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- A Freitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - a Freitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - a Freitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - a Freitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - a Freitag)
FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.).
FS Date: 4/17/2017 2:16:00 PM

Photo 3 of 3 : UCIP_SP_2018_51620_74958.jpg



Damaged gas lines at the WS berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	69
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51621 DS_ID:16899 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.). FS Date: 4/17/2017 2:17:33 PM					

Photo 1 of 3 : UCIP_SP_2018_51621_65219.jpg



Gasline markers on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	69 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51621 DS_ID:16899 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.). FS Date: 4/17/2017 2:17:33 PM					

Photo 2 of 3 : UCIP_SP_2018_51621_65218.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	69 (cont)	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033519 °	39.033519 °	
				-121.728926 °	-121.728926 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51621 DS_ID:16899 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.). FS Date: 4/17/2017 2:17:33 PM						

Photo 3 of 3 : UCIP_SP_2018_51621_74959.jpg



Damaged gas lines at the WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	70	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033517 °	39.033517 °	
				-121.728925 °	-121.728925 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51622 DS_ID:16900 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- A Freitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - a Freitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - a Freitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - a Freitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - a Freitag) FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.). FS Date: 4/17/2017 2:24:51 PM						

Photo 1 of 3 : UCIP_SP_2018_51622_65224.jpg



Gasline markers on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	70 (cont)	
LM End	10.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033517 °	39.033517 °	
				-121.728925 °	-121.728925 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51622 DS_ID:16900 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- A Freitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - a Freitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - a Freitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - a Freitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - a Freitag) FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.). FS Date: 4/17/2017 2:24:51 PM						

Photo 2 of 3 : UCIP_SP_2018_51622_65223.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	70 (cont)
LM End	10.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033517 °	39.033517 °
				-121.728925 °	-121.728925 °
DWR ID					

Comment Code					
Inspector Comment					

FS_ID:51622
DS_ID:16900
EP_NO: 14455
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- A Freitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - a Freitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - a Freitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - a Freitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - a Freitag)
FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.).
FS Date: 4/17/2017 2:24:51 PM

Photo 3 of 3 : UCIP_SP_2018_51622_74960.jpg



Damaged gas lines at WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	71
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.025693 °	39.025693 °	
			-121.726895 °	-121.726895 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:51595
DS_ID:16871
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 A abandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:16:54 PM

LM Start	10.83	Rating **	M	Issue No.	71 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51595_65251.jpg



Slide gates on WS shoulder

Photo 2 of 3 : UCIP_SP_2018_51595_65250.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	71 (cont)	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025693 °	39.025693 °	
				-121.726895 °	-121.726895 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51595 DS_ID:16871 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Aabandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticebale issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 4/13/2017 2:16:54 PM						

Photo 3 of 3 : UCIP_SP_2018_51595_65249.jpg



Pumphouse/intake structure on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	72
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.025683 °	39.025683 °	
			-121.726886 °	-121.726886 °	

DWR ID	
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Comment Code

Inspector Comment

FS_ID:51596
DS_ID:16906
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 2 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:17:39 PM

LM Start	10.83	Rating **	M	Issue No.	72 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51596_65254.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2018_51596_65253.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	72 (cont)	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025683 °	39.025683 °	
				-121.726886 °	-121.726886 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51596 DS_ID:16906 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 2 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 4/13/2017 2:17:39 PM						

Photo 3 of 3 : UCIP_SP_2018_51596_65252.jpg



Pumping plant on LS toe.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	73
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025673 °	39.025673 °
				-121.726873 °	-121.726873 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51597
DS_ID:16907
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 3 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:18:31 PM

LM Start	10.83	Rating **	A/W	Issue No.	73 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51597_65257.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2018_51597_65256.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	73 (cont)	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025673 °	39.025673 °	
				-121.726873 °	-121.726873 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51597 DS_ID:16907 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 3 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 4/13/2017 2:18:31 PM						

Photo 3 of 3 : UCIP_SP_2018_51597_65255.jpg



Pumphouse and intake on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	74
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °
				-121.726878 °	-121.726878 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51598
DS_ID:16908
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 4 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:19:46 PM

LM Start	10.83	Rating **	A/W	Issue No.	74 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51598_65260.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2018_51598_65259.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	74 (cont)	
LM End	10.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °	
				-121.726878 °	-121.726878 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51598 DS_ID:16908 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 4 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 4/13/2017 2:19:46 PM						

Photo 3 of 3 : UCIP_SP_2018_51598_65258.jpg



Pumphouse and intake on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	75
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °
				-121.726874 °	-121.726874 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51599
DS_ID:16909
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment for pipe.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 5 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:20:32 PM

LM Start	10.83	Rating **	A/W	Issue No.	75 (cont)
LM End	10.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51599_65263.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2018_51599_65262.jpg



Flap gates on WS Toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	75 (cont)
LM End	10.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °
				-121.726874 °	-121.726874 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51599
DS_ID:16909
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment for pipe.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 5 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:20:32 PM

Photo 3 of 3 : UCIP_SP_2018_51599_65261.jpg



Pumphouse/intake on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.85	Rating **	M	Issue No.	77
LM End	10.85	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025310 °	39.025310 °
				-121.726770 °	-121.726770 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51601 DS_ID:19986 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/9/2012 No permit identified for crossing. FIELD_STRUCT_DESC: Gas pipeline of an unknown size or material crosses the levee, at an unknown depth. Carsonite signs on both the landside (LS) and the waterside (WS) shoulder. Pipeline is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/13/2017 2:21:49 PM					

LM Start	10.85	Rating **	M	Issue No.	77 (cont)
LM End	10.85	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_51601_65266.jpg



Gasline marker on LS shoulder.

Photo 2 of 3 : UCIP_SP_2018_51601_65265.jpg



Gasline marker on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	10.85	Rating **	M	Issue No.	77 (cont)	
LM End	10.85	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.025310 °	39.025310 °	
				-121.726770 °	-121.726770 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51601 DS_ID:19986 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/9/2012 No permit identified for crossing. FIELD_STRUCT_DESC: Gas pipeline of an unknown size or material crosses the levee, at an unknown depth. Carsonite signs on both the landside (LS) and the waterside (WS) shoulder. Pipeline is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/13/2017 2:21:49 PM						

Photo 3 of 3 : UCIP_SP_2018_51601_76971.jpg



Close up of marker

LM Start	10.88	Rating **	M	Issue No.	1
LM End	10.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID	DWR_ST0002_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Small section of the mid levee slope has eroded from wind wave. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: SBP_11-1_L]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	12.75	Rating **	M	Issue No.	44
LM End	12.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.998698 °	38.998698 °
				-121.718062 °	-121.718062 °
DWR ID	DWR_ST0002_01_s_2018_44				
Comment Code					
MA : Material					
Inspector Comment					
Remove the tires from the water side slope and toe.					

Photo 1 of 1 : SP_2018_ST0002_450_44_20180403_00075.jpg



View of the tires along the waterside slope and toe.

LM Start	12.94	Rating **	M	Issue No.	78
LM End	12.94	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.996304 °	38.996304 °
				-121.716290 °	-121.716290 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51602 DS_ID:16883 EP_NO: 15571 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/11/2017 Unable to locate. (DWR Sutter Yard - AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)4/18/2016 Unable to locate.5/7/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection. Unable to locate.10/9/2012 Need to determine status of pipeline. Unable to locate any markers in field. FIELD_STRUCT_DESC: 10.75-inch steel gas pipeline through the levee, 2 feet below the crown. Pipeline was installed within the flowage area and both levees of the Sutter Bypass. Design drawings are available. (Permit No. 15571, 1990 - Hood Corporation). FS Date: 4/13/2017 2:26:11 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	13.34	Rating **	A/W	Issue No.	23
LM End	13.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991857 °	38.991857 °
				-121.711555 °	-121.711555 °
DWR ID	DWR_ST0002_01_s_2015_23				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the waterside slope.					

Photo 1 of 1 : SP_2018_ST0002_450_23_20180305_00004.jpg



View of the vehicle erosion along the slope.

LM Start	13.83	Rating **	M	Issue No.	39
LM End	13.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.987353 °	38.987353 °
				-121.704613 °	-121.704613 °
DWR ID	DWR_ST0002_01_s_2018_39				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the waterside slope and toe.					

Photo 1 of 1 : SP_2018_ST0002_450_39_20180403_00074.jpg



View of the tree along the waterside slope and toe.

LM Start	14.71	Rating **	M	Issue No.	37
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_37				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 1 : SP_2018_ST0002_450_37_20180305_00009.jpg



View of the erosion caused by vehicle traffic.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	14.71	Rating **	C	Issue No.	38
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The rodent holes was repaired along the waterside slope.					

No Photos

LM Start	14.71	Rating **	M	Issue No.	79	
LM End	14.71	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.979377 °	38.979377 °	
				-121.691929 °	-121.691929 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51605 DS_ID:16875 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 4/13/2017 2:34:10 PM						

Photo 1 of 3 : UCIP_SP_2018_51605_65314.jpg



Pipe on WS slope exposed and crushed below 30-inch steel riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	14.71	Rating **	M	Issue No.	79 (cont)	
LM End	14.71	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.979377 °	38.979377 °	
				-121.691929 °	-121.691929 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51605 DS_ID:16875 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 4/13/2017 2:34:10 PM						

LM Start	14.71	Rating **	M	Issue No.	79 (cont)
LM End	14.71	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51605_65313.jpg



Steel riser on LS shoulder.

Photo 3 of 3 : UCIP_SP_2018_51605_65312.jpg



Crushed pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	17.60	Rating **	M	Issue No.	21
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.949965 °	38.949965 °
				-121.653823 °	-121.653823 °
DWR ID	DWR_ST0002_01_s_2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 2 : SP_2018_ST0002_450_21_20180305_00002.jpg



View of the vehicle erosion along the waterside slope.

LM Start	17.60	Rating **	M	Issue No.	21 (cont)
LM End	17.60	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_ST0002_450_21_20180305_00003.jpg



View of the vehicle erosion along the waterside slope.

LM Start	18.18	Rating **	A	Issue No.	36
LM End	18.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.943558 °	38.943558 °
				-121.646885 °	-121.646885 °
DWR ID	DWR_ST0002_01_s_2018_36				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Native vegetation on both slopes are well maintained.					

Photo 1 of 1 : SP_2018_ST0002_450_36_20180403_00072.jpg



View of native vegetation on both slopes.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	80 (cont)
LM End	19.18	Issue Type +	Ma	Location *	

Pumphouse on LS toe.

Slide gates on WS shoulder.

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**Flood Control Project Maintenance
Levee Inspections**

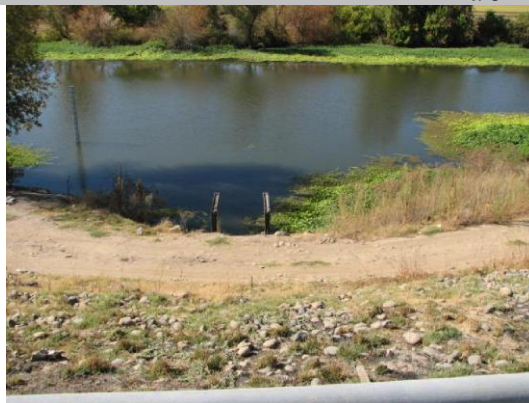
Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	80 (cont)	
LM End	19.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.932476 °	38.932476 °	
				-121.635173 °	-121.635173 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51609						
DS_ID:16877						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culvert.						
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 1 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].						
FS Date: 4/13/2017 2:44:23 PM						

Photo 3 of 3 : UCIP_SP_2018_51609_65327.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	81
LM End	19.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932469 °	38.932469 °
				-121.635160 °	-121.635160 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51610
DS_ID:17027
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culverts.
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].
FS Date: 4/13/2017 2:47:22 PM

LM Start	19.18	Rating **	A/W	Issue No.	81 (cont)
LM End	19.18	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51610_65330.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2018_51610_65329.jpg



Slide gates on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

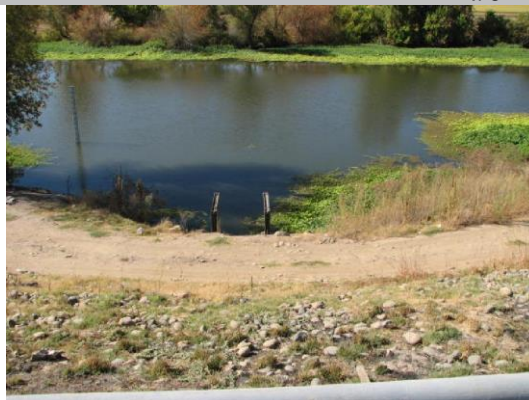
Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	81 (cont)	
LM End	19.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.932469 °	38.932469 °	
				-121.635160 °	-121.635160 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51610 DS_ID:17027 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culverts. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 4/13/2017 2:47:22 PM						

Photo 3 of 3 : UCIP_SP_2018_51610_65328.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	82
LM End	19.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °
				-121.635150 °	-121.635150 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51611
DS_ID:17028
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Need to determine type of abandonment for concrete culverts.
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].
FS Date: 4/13/2017 2:50:01 PM

LM Start	19.18	Rating **	A/W	Issue No.	82 (cont)
LM End	19.18	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51611_65333.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2018_51611_65332.jpg



Slide gates on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

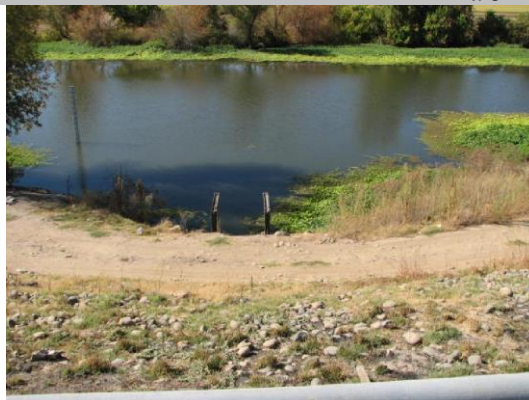
Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	82 (cont)	
LM End	19.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °	
				-121.635150 °	-121.635150 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51611						
DS_ID:17028						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Need to determine type of abandonment for concrete culverts.						
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].						
FS Date: 4/13/2017 2:50:01 PM						

Photo 3 of 3 : UCIP_SP_2018_51611_65331.jpg



Flap gate at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	19.18	Rating **	M	Issue No.	83	
LM End	19.18	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.932423 °	38.932423 °	
				-121.635085 °	-121.635085 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51612 DS_ID:16878 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing. (DWR Suter Yard-afreitag)4/18/2015 Abandoned crossing. No noticeable issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser unit on the waterside (WS) shoulder. Flap gate on the WS end. (Permit No. 3165, 1959 - State of California, Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/13/2017 2:51:29 PM						

Photo 1 of 1 : UCIP_SP_2018_51612_65334.jpg



36-inch CMP riser on WS shoulder.

LM Start	20.02	Rating **	M	Issue No.	29
LM End	20.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.922678 °	38.922678 °
				-121.625890 °	-121.625890 °
DWR ID	DWR_ST0002_01_f_2015_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_ST0002_450_29_20180305_00006.jpg



View of the vehicle erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	20.34	Rating **	U	Issue No.	10
LM End	20.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.918147 °	38.918147 °
				-121.624545 °	-121.624545 °
DWR ID	DWR_ST0002_01_s_2012_10				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP_2018_ST0002_450_10_20180305_00001.jpg



View of the house next to the toe of the levee.

LM Start	20.43	Rating **	C	Issue No.	40
LM End	20.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.916965 °	38.916965 °
				-121.624048 °	-121.624048 °
DWR ID	DWR_ST0002_01_f_2016_40				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
The rodent holes was repaired along the landside slope.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/27/2018 03/27/2018	Bob Duffey

LM Start	21.29	Rating **	A/W	Issue No.	43
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.904832 °		°
			-121.620151 °		°
DWR ID	DWR_ST0002_01_f_2017_43				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:174 Site Designation:164-24 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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